

In The Claims:

Please Amend the Claims as Follows:

1. (Currently Amended) A method for scatter correction during simultaneous bi-plane imaging comprising:

generating a first x-ray flux in a first imaging plane;

generating a first image readout;

digitally sampling a first scatter signal from said first x-ray flux in a second imaging plane; [[and]]

generating a first compensation signal for said first scatter signal;

generating a second x-ray flux in said second imaging plane;

generating a second image readout;

compensating for scatter in said second image readout with said first compensation signal;

activating a first scatter correction algorithm in response to said second image readout and said first compensation signal;

generating a first image display from said first scatter correction algorithm; and

periodically updating said first image display through stopping a current exposure in said second imaging plane and reading a scatter image update resulting from an exposure in said first plane.

2. (Original) The method of claim 1 wherein generating a first compensation signal further comprises activating a first scatter image formation algorithm;

generating said first compensation signal; and

storing said first compensation signal in a first scatter correction memory.

3. (Cancelled)

4. (Currently Amended) The method of claim [[3]] 1 further comprising generating a third x-ray flux in said first imaging plane;

generating a third image readout;

generating a fourth x-ray flux in said second imaging plane;
generating a fourth image readout;
digitally sampling a second scatter signal from said fourth x-ray flux in
said first imaging plane;
and
generating a second compensation signal for said second scatter
signal.

5. (Original) The method of claim 4 further comprising generating a
second digital scatter readout;
generating a fifth x-ray flux in said first imaging plane;
generating a fifth image readout; and
compensating for scatter in said fifth image readout with said second
compensation signal.

6. (Cancelled)

7. (Cancelled)

8. (Currently Amended) The method of claim [[5]] 6 further
comprising activating a second scatter correction algorithm in response to said fifth
image readout and said second compensation signal; and
generating a second image display from said second scatter correction
algorithm.

9. (Currently Amended) A method for scatter correction during
simultaneous bi-plane imaging comprising:
generating a first x-ray flux in a first imaging plane;
generating a first image readout;
digitally sampling a first scatter signal from said first x-ray flux in a
second imaging plane;
generating a first compensation signal for said first scatter signal;
generating a second x-ray flux in said second imaging plane;
generating a second image readout; [[and]]

compensating for scatter in said second image readout with said first compensation signal;

activating a first scatter correction algorithm in response to said second image readout and said first compensation signal;

generating a first image display from said first scatter correction algorithm;

periodically updating said first image display through stopping a current exposure in said second imaging plane and reading a scatter image update resulting from an exposure in said first plane.

10. (Original) The method of claim 9 further comprising generating a third x-ray flux in said first imaging plane; and
generating a third image readout.

11. (Original) The method of claim 10 further comprising generating a fourth x-ray flux in said second imaging plane;
generating a fourth image readout;
digitally sampling a second scatter signal from said fourth x-ray flux in said first imaging plane;
and
generating a second compensation signal for said first scatter signal.

12. (Original) The method of claim 11 further comprising generating a second digital scatter readout;
generating a fifth x-ray flux in said first imaging plane;
generating a fifth image readout; and
compensating for scatter in said fifth image readout with said second compensation signal.

13. (Cancelled)

14. (Cancelled)

15. (Currently Amended) The method of claim [[12]] 13 further comprising activating a second scatter correction algorithm in response to said fifth image readout and said second compensation signal; and
generating a second image display from said second scatter correction algorithm.

16.-20. (Cancelled)

21. (Currently Amended) A scanning system including a gantry, a first x-ray source coupled to said gantry, said first x-ray source adapted to generate a first x-ray flux and a first plane scatter signal, a second x-ray source coupled to said gantry, said second x-ray source adapted to generate a second x-ray flux and a second plane scatter signal, a first x-ray detector system coupled to said gantry, said first x-ray detector system adapted to generate a first detector signal in response to said first x-ray flux and further adapted to generate a first scatter signal in response to said second plane scatter signal, a second x-ray detector system coupled to said gantry, said second x-ray detector system adapted to generate a second detector signal in response to said second x-ray flux and further adapted to generate a second scatter signal in response to said first plane scatter signal, the scanning system comprising:

a host computer adapted to receive the first detector signal, the second detector signal, the first scatter signal, and the second scatter signal; and

[[An]] an x-ray image data file generated by said host computer as a function of the first detector signal, the second detector signal, the first scatter signal, and the second scatter signal representative of internal portions of an object, [[the]] said file comprising[[(:)] first digital data representative of internal portions of [[the]] said object when exposed to [[a]] the first x-ray source[[(:)] ,

second digital data representative of internal portions of [[the]] said object when exposed to [[a]] the second x-ray source substantially simultaneously with exposure to [[the]] the first x-ray source, wherein the first x-ray source is displaced from the second x-ray source, [[the]] said first digital data has been modified to compensate for scattered radiation from the second x-ray source, and [[the]] said second digital data has been modified to compensate for scattered radiation from the first x-ray source[[(:)] , and

third digital data representative of a characteristic of ~~[[the]]~~ said object.

22. (Cancelled)

23. (Currently Amended) The data file of claim ~~22~~ 21, wherein ~~[[the]]~~ said object is a person and said third digital data is representative of at least one of the person's name, identification number, or physical condition.

24. (Currently Amended) The data file of claim 23, wherein said first and second digital data is generated when ~~[[said]]~~ the first and second x-ray sources are located at least three positions relative to the patient, and wherein the at least three positions define an arc.

25. (Original) The data file of claim 24, wherein said arc has a fixed radius.

26. (Currently Amended) The data file of claim 23, wherein said first and second digital data is generated when ~~[[said]]~~ the first and second x-ray sources are located at least three positions relative to the patient, and wherein the at least three positions are located along a straight line.

27. (Cancelled)

28. (Original) The data file of claim 23, wherein at least one image is of the person's chest cavity.

29. (Original) A method of generating revenue comprising:
generating a first digital data representative of internal portions of an object when exposed to a first x-ray source;

generating a second digital data representative of internal portions of an object when exposed to a second x-ray source substantially simultaneously with exposure to said first x-ray source, wherein said first digital data has been modified to compensate for scattered radiation from said second x-ray

source and said second digital data has been modified to compensate for scattered radiation from said first x-ray source;

generating a third digital data representative of a characteristic of said object; and

generating a request for a payment of money based upon at least said third digital data.

30. (Original) The method of claim 29, wherein said first and second digital data is generated by respective digital x-ray detectors and is representative of at least one image of said object.

31. (Currently Amended) The method of claim 30, wherein said object is a person and said third digital data is representative of at least one of the person's name, identification number, or physical condition.

32. (Currently Amended) The method of claim 31, wherein generating said first and second digital data includes at least the a step of exposing a person's chest cavity to said first and second x-ray sources.

33. (Original) The method of claim 29, wherein generating said first and second digital data includes:

generating first scatter data representative of radiation scattered from said first x-ray source when said second x-ray source is not radiating x-rays;

generating second scatter data representative of radiation scattered from said second x-ray source when said first x-ray source is not radiating x-rays;

performing said compensation of said first digital data based on said second scatter data; and

performing said compensation of said second digital data based on said first scatter data.

34. (Original) The method of claim 32, wherein generating said first and second digital data includes:

generating first scatter data representative of radiation scattered from said first x-ray source when said second x-ray source is not radiating x-rays;

generating second scatter data representative of radiation scattered from said second x-ray source when said first x-ray source is not radiating x-rays;

performing said compensation of said first digital data based on said second scatter data; and

performing said compensation of said second digital data based on said first scatter data.

35. (Currently Amended) The method of claim 34, further comprising the a step of transmitting said first, second, and third digital data over a computer network.

36. (Currently Amended) The method of claim 35, wherein said computer network is the ~~internet~~ Internet.

37. (Original) The method of claim 36, wherein said computer network is one of a wide-area computer network or a local-area computer network.

38. (Currently Amended) The method of claim ~~[[24]]~~ 29, further comprising storing said first, second and third digital data in reference to said request for payment and data representative of payments associated with said request for payment.

39. (Original) The method of claim 38, further comprising determining a service charge associated with said request for payment.

40. (Currently Amended) A system for imaging internal portions of an object comprising:

a first radiation imaging system source;

a second radiation imaging system source displaced from said first radiation imaging system source;

a first digital detector supported relative to said first ~~radiation~~ imaging system source to generate first digital data representative of the object when exposed to a first ~~radiation~~ imaging system source;

a second digital detector supported relative to said second ~~radiation~~ imaging system source to generate second digital data representative of the object when exposed to a second ~~radiation~~ imaging system source substantially simultaneously with exposure to said first ~~radiation~~ imaging system source, wherein said first digital detector selectively generates first scatter data representative of radiation scattered from said first ~~radiation~~ imaging system source when said second ~~radiation~~ imaging system source is not radiating ~~[[x-rays]]~~ radiation and second scatter data representative of radiation scattered from said second ~~radiation~~ imaging system source when said first ~~[[x-ray]]~~ imaging system source is not radiating imaging system radiation; and

a digital data processor coupled to said detectors to modify said first digital data with said second scatter data to compensate for scattered radiation from said second ~~radiation~~ imaging system source and to modify said second digital data with said first scatter data to compensate for scattered radiation from said first ~~radiation~~ imaging system source, wherein said data processor is further configured to store third digital data representative of a characteristic of the object.

41. (Cancelled)

42. (Currently Amended) The system of claim ~~[[41]]~~ 40, wherein said characteristic is one of an object type, an object name, an object location, an object destination, an object identification number, an object owner, an object source, or an object shape.

43. (Original) The system of claim 40, further comprising a human viewable display for generating an image associated with said modified first and second digital data.

44. (Currently Amended) The system of claim 43, further comprising a conveyor for supporting an object, and wherein the object is one of baggage, packages, liquid containers, or envelopes.

45. (Currently Amended) The system of claim 43, wherein the object ~~may be~~ comprises a vehicle and said ~~radiation~~ imaging system sources and detectors are supported relative to a vehicle imaging location.

46. (Currently Amended) The system of claim 43, wherein said data processor is further configured to store third digital data representative of a characteristic of the object, and wherein the object is a person.

47. (Original) The system of claim 46, wherein said viewable display is configured to further generate alphanumeric or graphical images representative of said characteristic simultaneously with the image.

48. (Original) The system of claim 47, wherein said characteristic is one of a name, age, weight, identification number, location, view, or physical condition of the person.

49. (Currently Amended) The system of claim 48, further comprising a gantry for moving said ~~radiation~~ imaging system sources relative to the ~~patient~~ person.

50. (Currently Amended) The system of claim 49, further comprising a network interface coupled to said processor for communicating first, second, and third digital data over a network.